

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "Ray L. Mote" <rmote@rain.org>  
Subject: "Jim Williams & Sons" ads in ER???  
Message-ID: <Pine.SUN.3.91.960313072600.11919B-100000@coyote.rain.org>

Well, I've called in the morning, afternoon, and evening, both on weekdays and weekends, and never got anything but their answering machine. Does anyone know this character? Is it yet another one of those "after hours & weekends" businesses? Better yet, has anyone actually done business with them via mail/fax? I've tried leaving messages, but never had a call back from them. Frustrating!

73.....Ray Mote, W6RIC <rmote@rain.org>

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: lstolz@tekelec.com (Lynn Stolz)  
Subject: Re: "Jim Williams & Sons" ads in ER???  
Message-ID: <9603131615.AA05071@london.oh.tekelec.com>

> From boatanchors@theporch.com Wed Mar 13 10:58:30 1996  
> Date: Wed, 13 Mar 1996 09:37:20 -0600 (CST)  
> Reply-To: rmote@rain.org  
> Originator: boatanchors@theporch.com  
> Sender: boatanchors@theporch.com  
> From: "Ray L. Mote" <rmote@rain.org>  
> To: Multiple recipients of list <boatanchors@theporch.com>  
> Subject: "Jim Williams & Sons" ads in ER???  
> X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
> X-Comment: Amateur Radio Equipment Using Vacuum Tubes  
> Content-Type: > TEXT/PLAIN> ; > charsetS-ASCII>  
> Mime-Version: 1.0  
> Content-Length: 444  
>  
> Well, I've called in the morning, afternoon, and evening, both on  
> weekdays and weekends, and never got anything but their answering  
> machine. Does anyone know this character? Is it yet another one of  
> those "after hours & weekends" businesses? Better yet, has anyone  
> actually done business with them via mail/fax? I've tried leaving  
> messages, but never had a call back from them. Frustrating!  
>  
> 73.....Ray Mote, W6RIC <rmote@rain.org>  
>  
>  
I have. No problemo. Use the mail. That's my experience.

Lynn -- N8AJ

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: jmiller@teleteam.com (Jay H. Miller)  
Subject: 6146 Family Tree  
Message-ID: <v01510100ad6c48ee5812@[205.198.110.8]>

I'm trying to put together some information on the 6146 family of beam power tubes so prevalent in firebottle ham equipment.

Would anyone mind supplying me with copies of RCA data sheets for the 6146, 6146A, 6146B, 6146R and 6146W. I believe that is the complete line. I'd like to prepare a condensed application guide with special emphasis on the claimed 33% more power output of the \*B\* over the \*A\*.

Other comment certainly welcome and appreciated.

73

\*\*\*\*\* ##### \*\*\*\*\*  
Jay H. Miller, KK5IM Dallas, Texas  
The Pocket Guide to Collins Amateur Radio Equipment  
jmiller@teleteam.com  
\*\*\*\*\* ##### \*\*\*\*\*

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Morris Odell <morriso@vifp.monash.edu.au>  
Subject: Re: AC leakage current testing  
Message-ID: <199603140317.0AA16471@vifp.monash.edu.au>

Dear Bob and the gang,

> I dug out the old calculator and came up with the following: We are  
> primarily  
> concerned with 60 Hz leakage. The .15uf cap has an impedance of about 20K  
> at 60 Hz so we can negate that. That leaves the 1.5K resistor. To develop  
> .35V across the resistor would take .23ma. I would say that is pretty  
safe.  
> I forget exactly what current is said to be considered dangerous but I  
> think it was up around 20 to 50 ma. So this looks like a factor of 100  
> anyway.

I have just been doing a little research into just this subject for a lecture I have to give. At mains power frequencies the lowest detectable

steady state current is in the region of 0.1 ma depending on which part of the body is in contact with the "juice" - the tongue being the most sensitive. At about 10-15 ma muscles contract to the point where letting go is impossible and at about 40 ma across the chest the heart can go into fibrillation with fatal results. Of course these are only averages and there is tremendous individual variation.

I seem to remember some discussion here about a vibratory sensation when touching a non-earthed chassis subject to mains leakage. I certainly have felt this many times, it's due to leakage currents near the lower limit of detection. I certainly wouldn't lick such a device !!!

73

Morris Odell VK3DOC  
morriso@vifp.monash.edu.au

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: KA9EGW@aol.com  
Subject: Re: AC leakage currents, present stds.  
Message-ID: <960313010200\_167353045@mail04.mail.aol.com>

If memory serves, current std for medical equipment is 100 uA.

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Henry van Cleef <vancleef@bga.com>  
Subject: Another junk Tek scope springs back to life  
Message-ID: <199603140727.BAA07640@zoom.bga.com>

I finally got around to tackling the RM585A that came in the group of Tek scopes I bought last summer. It had the work "JUNK" crayoned on the front panel. When I got it, I thought I was getting an RM35A. Someone ground the numbers off the designation on the front panel. It wasn't until I saw an 80 plug-in in the thing that I realized that it was an 85A. One of the things that I got with the scopes was a power transformer for a 580-series, so I figured I might be in for some serious soldering. The scope was quite clean inside, not like most of them I get, which look as though they've spent the winter at the bottom of a muddy river.

Some creative swapping over the past few months produced a very nice 82 plug-in and an 81A adapter (required to use letter and 1A series plugins in a 580-series scope) that needed some TLC.

Onto the bench it went. The reason it is called an "85" is that it

weighs 85 lbs---the champion heavyweight of the 500-series plug-in single trace scopes. The usual visual inspection (with a magnifying glass) showed everything in place, and no signs of repairs. A check showed the correct fuse in the fuseholder, and it was whole (always a good sign), and some creative work with the ohmmeters showed that primary power was isolated from ground, and that things looked as they should. No signs of smoke or shorts. I hooked up my army of trusty meters to the power supplies. Then I walked over the front panel controls. Intensity and astigmatism CCW, focus CW. Position controls CCW, all to help prevent a surprise bright spot and CRT screen burn. Display set for A sweep, both A and B sweeps set for 1 microsecond/cm, internal AC trigger, stability CW to free-run the sweeps, magnifier and calibrator OFF. There are just enough controls on a Tek scope that the best thing to do is to go through a check list----touch each control and assure that it is set properly----just like running through a pre-takeoff checklist in an airplane. I take the cover off the high voltage supply. This is one area that collects dirt through electrostatic precipitation, and needs to be clean. Also, no HV is a common problem, and you may need to have this area open for troubleshooting. The cover is over the oscillator and control circuits, as well as the three rectifier circuits.

Into the wall outlet went the power plug. I don't fuss with Variac games. On an old Tek scope, they're bad news----the scope is made to run on 105 volts minimum. A flip of the switch produced the throaty roar of the fan, and things started to glow properly. No signs of voltage anywhere, but that's to be expected. On 530 and 540 volts, you'll see some voltage on the +100 bus, heating up the plugin tubes. On the 580 series, the plugin is fed 12 volts from a separate diode supply, so the +100 doesn't have the "kicker" resistor in the circuit. A few on-then-offs, to sniff for smoke and listen for expensive noises, as well as to give the very large filter caps connected to the diodes a shot of current in case they haven't felt any recently.

Now comes the moment of truth. One eye on the second hand of the watch, turn the power on, and wait-and wait-and wait-and wait. The delay cycle runs about 45 seconds. The other eye on the five meters hooked to the supplies. The other eye is on watching for signs of trouble. The German term "Gestalt" describes the levels of awareness one needs to have when firing up an unknown scope the first time. The time delay is long enough that one can get into a serious quarrel with oneself over whether to shut the thing off, go get a cup of coffee, and think about it some more----about two or three such quarrels, while waiting.

Finally, "ka-plick"---in comes the relay, and the meters jump to attention. The ones to watch are the -150 and +100. The -150 gets the precision meter---it's the supply that is the reference for all the

others. But the +100 has to come to life for the -150 regulator to work. Once those are checked, the other three (225, 350, and 500) get checked for proper voltage. I saw them jump to life, so started by checking the indications on the -150 and +100 before actually reading the values of the other supplies on their meters.

Take a look at the HV rectifiers. Ah, yes, their little filaments are glowing happily. That's a good sign. If all you see is red, and no purple, their probably is voltage on the CRT cathode, grid, and acceleration spiral.

Now, let's see if we get a trace on the CRT. Vertical position makes the position lights work. Set it to the center by the lights. Horizontal position works its lights. Make the left light just go out. Now raise the intensity a bit. Ah, yes, there it is, a big fat green line. Focus it up a bit and turn the calibrator up to see if we get a square wave. Check triggering by backing stability off, then working the trigger level control. Check the B sweep, and the delaying function.

If you've gotten this far without having to do some troubleshooting, you're in fat city. On this particular scope, the front panel was badly battered. All four corners were sprung up from the backplate, and there were nicks, dings, gouges and dents all over, particularly around the edges. I took the panel completely off. To do that, you have to take off all the knobs, the ground connectors and binding posts, and all of the other hardware that is fastened through the panel cover. I spent an afternoon doing body-and-fender work on it, which is a bit tricky on soft aluminum, then sanded out all the scratches. The panels were originally coated with clear lacquer, which I stripped. To get that nice soft matte finish, I used a mild hot lye solution. That makes plenty of bubbles and gases---have a fan going, and watch your step---lye is lye. A few teaspoons of lye in a gallon of water are strong enough to get good action that is slow enough to control easily.

I haven't got this panel refinishing act down pat yet. Of course, this panel has the etched markings in it, and they have to be refilled. You can't play this game with the later silk-screened panels. Final finish was with a matte clear lacquer, which hides some of the sins. But it has to be just about right before you put the lacquer on. This panel looks a lot better than it did---but the scope would have looked better with no panel.

I still have some work to do to get this thing right. The A sweep is sluggish to start on the fastest positions, and I'll have to try another 6AL5 and go from there. Where that shows up is displaying the output of a 107 square wave generator. The first wave of a ten-cycle display is much shorter than the last, and they are bunched up---a sure

sign that the sweep is not linear. But it's obvious that I'll soon have a working 585 for my bench.

I've got a bit of work for it to do. My Hallicrafters S-36A still has local oscillator trouble on band 2. The 585A will look at the oscillator frequency (38-78 Mhz) and give me some clues as to what to try to fix in the receiver.

--

\*\*\*\*\*  
Hank van Cleef vancleef@bga.com vancleef@tmn.com  
\*\*\*\*\*

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>  
Subject: BoatAnchors on the Web NOT!  
Message-ID: <199603131530.JAA15225@dlep1.itg.ti.com>

Greetings,

This morning I'm wondering whether my post of March 6 about BoatAnchors being on the web resulted in its cancellation. I checked this morning and found that the last available BoatAnchors archive at the site is, amazingly enough, dated March 6.

Oh well, sometimes it's just better to keep quiet about things. Hope no one was depending on this site to keep informed about the BoatAnchors list.

Regards,  
Bill Sorsby, N5BU

\*\*\*\*\*  
bill.sorsby@dlep1.itg.ti.com  
Views expressed herein are no one's fault but mine.  
\*\*\*\*\*

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "Lahlum Ross" <ross\_lahlum@msmail.wes.mot.com>  
Subject: RE: BoatAnchors on the Web NOT!  
Message-ID: <9603131554.AA16052@kay.wes.mot.com>

That would be a shame. I found out about the BA list from the Web, and I imagine many others did, too.

Ross KB9JJR

>This morning I'm wondering whether my post of March 6 about BoatAnchors  
>being on the web resulted in its cancellation. I checked this morning and  
>found that the last available BoatAnchors archive at the site is, amazingly  
>enough, dated March 6.

>Oh well, sometimes it's just better to keep quiet about things. Hope no one  
>was depending on this site to keep informed about the BoatAnchors list.

>Regards,

>Bill Sorsby, N5BU

\*\*\*\*\*  
bill.sorsby@dlep1.itg.ti.com  
Views expressed herein are no one's fault but mine.  
\*\*\*\*\*

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: RWAYNE@CTC.Net  
Subject: re:Charlotte Hamfest Report  
Message-ID: <01I2A8H5HORM8X0MY5@InfoAve.Net>

This hamfest had a good selection of BAs for sale.

The 32V2/75A1/speaker combo was sold for \$375 late Sat. afternoon.  
The 75A1 and speaker cabinets had been repainted with poor results.

Other items were another 75A1 and 32V2 pair at one table.  
I bought the 75A1. The 32V2 was traded for a Regency TR-1.

A 75S3C WE  
for \$600 and a KWM-2A RE with 312-B5 Remote VFO (very nice) for  
somewhat more than \$1000. These had not been sold by Sun. morning.

Also a selection of 50's National receivers (HRO 50, NC-46, NC-88 ?).  
HQ-170, SX-100, BC-312, Viking Ranger I I, SX-110, Drake TR-4.

I also picked up a HT-17 transmitter Friday afternoon. Very clean. Nice  
small transmitter to pair with my HT-18 VFO.

Richard W4CBG

rwayne@ctc.net

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "P. J. Rovero" <provero@connix.com>  
Subject: Collins Filter Info?  
Message-ID: <199603131333.IAA14407@comet.connix.com>

I'm looking for information on a particular Collins mechanical filter  
which came out of a ultrasonic sonar reciever:

F455 FA 21 7347 526 9427 00

I figure it's 455 KHz, but bandwidth and symmetry/sideband info would  
be appreciated. Thanks in advance,

Josh

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Al Klase <alklase@postoffice.ptd.net>  
Subject: Re: Collins Filter Info?  
Message-ID: <199603132149.QAA17166@ns1.ptd.net>

At 07:36 AM 3/13/96 -0600, you wrote:

>I'm looking for information on a particular Collins mechanical filter  
>which came out of a ultrasonic sonar reciever:

>

> F455 FA 21 7347 526 9427 00

>

455 KHz center freq., Symetrical Bandpass, BW = 2.1KHz @ -3dB, 6.3KHz @ -60dB

73,

Al Klase - N3FRQ

alklase@mailbox.ptd.net

Flemington, NJ

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: rsolomon@cctds.textron.com  
Subject: DeoxIT Advise  
Message-ID: <9602138267.AA826752937@cctds.textron.com>

I am going to be cleaning up some old Gonset Twins and have  
read here that the stuff to use is DeoxIT. Saw the ad in QST,



but would like hints on which product to use and what/what not to do. Tnx in advance, Dick, W1KSZ

rsolomon@cctds.textron.com

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Michael Crestohl <mc@shore.net>  
Subject: Drive1 on the List....."Give Me a Hand..."  
Message-ID: <199603140240.VAA04315@northshore.shore.net>

>Give me a hand.... by Chi-Ming Lu <psu02598@odin.cc.pdx.edu>

>My name is Chiming Lu and I am a graduate student at Portland State  
>University involved in a group project doing an analysis of the  
>Electronic Design Automation industry. The attached questionnaire....

(drive1 deleted)

Give Us a break! This is hardly relevent to our discussion group and spammed posts are frowned upon. I expect you will hear from W4PPT, Jack Hill, the listowner. I'm sure that most of us trashed your questionnaire routinely - I doubt if you will receive any replies that will be of use to you. You probably received a fair number of messages like mine to advise you that this kind of post is inappropriate and is not generally greeted with much positive enthusiasm.

Just another argument for a controlled access list.....like we're getting in a few days!

Michael Crestohl, KH6KD/W1  
Resident Curmugeon!!!  
mc@shore.net

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Cal Eustaquio <ceustaqu@farad.elee.calpoly.edu>  
Subject: EFJ/Heath/Halli connex ready to be ordered  
Message-ID: <Pine.ULT.3.91.960313133906.11500C-100000@farad.elee.calpoly.edu>

Hello Gang:

I contacted a supplier and I manage to get the costs down on those touted two prong BA mic connex. I will be ordering twenty. It will cost you \$7.50 per connector (down from the \$9.00 that Allied or Newark charges). I would like to add \$.50 per order (not connector) to alleviate the costs of shipping material in addition to the postage. Does anyone have a

problem with that? Please let me know. I am considering purchasing additional stock on this stuff should this preliminary order do o.k. To those of you who requested the connector before hand, could you please e-mail me again to confirm? Include number of connectors. I will e-mail any additional mailing costs to you. 73's, Cal.

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: rsolomon@cctds.textron.com  
Subject: Eimac Tube Data Sheets  
Message-ID: <9602138267.AA826736175@cctds.textron.com>

Have found a number of Eimac Data Sheets (circa mid to late '60's). Includes Diodes/Pulse Modulators (14), Triodes (46), Tetrodes/Pentodes (33) including the mysterious 4E27A/5-125B and other products (6). Quantity of each shown in ()'s. Anyone interested in these? Open to offers/trades, still looking for Gonset G66/G77 "stuff".

73 de Dick, W1KSZ.

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "Integration Area" <integrat@usr.com>  
Subject: FS: Monitor amps and a book  
Message-ID: <9602138267.AA826736938@robogate.usr.com>

I have the following for sale...

1. World Radio Handbook, 1960 edition. This is a good historical reference for the shortwave listener. It has some boatanchors ads, including some broadcast transmitter pictures. The pages are in decent shape, but the cover is a little worn. Does anyone want this for \$4 plus shipping?

2. RCA theatre junk, consisting of: MI-9228 Monitor Amplifier, MI-1228-B Monitor Amplifier, and MI-9701-B Main Fader. The MI-9228 has (2) 6V6GT and (1) 5Y3GT, and the older MI-1228-B has (2) 42 and (1) 80. Both are black wrinkle boxes, about a foot square and a few inches deep, with holes for 1/2 inch conduit. These are meant to be mounted to a wall. The only control is for volume, in the center of the front of the box. I tested the filaments on the tubes, but that is it. Everything looks OK inside (no bad smells or burnt stuff, as far as I could tell). The MI-9701-B is basically just a nice Daven attenuator in a box, with some mechanical linkages. I did not fool with this one at all. The paint on all these things is not great! I will take a \_hamfest\_special\_ offer (plus shipping) I get for the lot.

Of course I am open to haggling!

William Donzelli  
integrat@usr.com

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: David Metz <metzd@cfw.com>  
Subject: FS:Hallicrafters WR1000  
Message-ID: <9603140350.AA07091@milo.cfw.com>

Wood cased 4 band 4 tube Hallicrafters in average condition that works.( At least about as good as a 4 tuber can.) \$45 plus shipping.

Thanks dave metzd@cfw.com

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "Lahlum Ross" <ross\_lahlum@msmail.wes.mot.com>  
Subject: FW: Give me.....  
Message-ID: <9603131641.AA16371@kay.wes.mot.com>

I agree. This sort of thing doesn't belong here. I get enough calls & junk mail related to surveys as it is - during the day at work and, even worse, at home during dinner. It's rather unsettling to get even more of it in what we feel to be a safe haven for our interests.

Ross KB9JJR

>I entreat our gracious hosts to unburden their humble System 7 (and  
>subscribers who retreat from Unix and NT hassles to the comfort of their  
>warm BA hardware)from flagrantly off-topic traffic.

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>  
Subject: Re: FW: Give me.....  
Message-ID: <2ECA8C96163@sbii.sb2.pdx.edu>

BTW,

I feel compelled to make a public disclaimer since the goofball who sent around

the  
solicitation form appears to be a student at my university. In fact, I have never  
heard of  
this fellow, nor do I know anything about his degree program/course, etc.

Later,

=Randy=  
Randy Zelick  
Dept. Biology  
Portland State University  
P.O. Box 751  
Portland, OR 97207  
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: Chi-Ming Lu <psu02598@odin.cc.pdx.edu>  
Subject: Give me a hand  
Message-ID: <Pine.PTX.3.91.960312234436.16667C-100000@odin.cc.pdx.edu>

Hi:

My name is Chiming Lu and I am a graduate student at Portland State University involved in a group project doing an analysis of the Electronic Design Automation industry. The attached questionnaire is an evaluatory part of the group project which is a part of our required MBA course work. You have been selected along with a chosen other few by our team, as a random sample market, and your specific input to this questionnaire will be very important to the outcome of this group project. It will also be used to refine and develop better tools for you and your colleagues. Thank you very much for your help.

The following instruction will help expedite the process of filling out this questionnaire which will take you about 20 minutes to answer. If, however, you know of any better way of transferring this information, we would be most grateful for any suggestions you offer. Please append suggestions to the end of the questionnaire.

- 1) Simultaneously press Alt (or Apple key if you are a Mac user) + Tab to switch into your word processing program.
- 2) Open a new file in the word processing program.
- 3) Switch back to your e-mail file and highlight (or use Alt+A) the entire questionnaire.
- 4) Copy the questionnaire, switch to the new file and paste the questionnaire to it.

- 5) Now you are ready to fill out the questionnaire.  
6) Use the same method to return to your UNIX system and send the entire fill-out questionnaire to us.

-----  
-----  
QUESTIONNAIRE

Preliminaries: (if you do not want your company name, address, and phone# included, please leave blank)

Company name:

Address:

Phone #:

How many employees does your company have:

- a) 1-100 b) 101-250 c) 251-500 d) 501-1000 e) > 1000

Job title or position:

Job activities and responsibilities

What role do you play in the purchase and evaluation of EDA tools? (mark all that apply)?

- a) user of tools b) specify and recommend tools c) contract negotiations with vendors d) make final purchasing decision e) other (specify)

1. Please check the industry you work in:

- a) Aerospace/military/government  
b) Computers  
c) Communications  
d) Semiconductor  
e) Automotive/industrial controls  
f) Consumer  
g) Other (specify)

2. Please indicate the operating system you use in your design work (check all that apply) :

- a) UNIX  
b) PC 16 (DOS)  
c) Window 32 (Windows 95 or Windows NT)  
d) Other (specify)

\* If a. (UNIX) is one of the answers checked in question #2 above, please go to question #3,4,5,6. Otherwise, please skip to question #7 below.

3.

A. What type of design work occurs on the work station:

- a) IC design  
b) FPGA/ASIC  
c) Printed circuit board design

- d) Mixed technology
- e) Other (specify)

0

B. Please indicate the type of design work performed.

	IC	FPGA/ASIC	PC board	Other
Digital only				
Analog only				
Digital and analog				

C. Does your company plan to use Window NT tools? Or your company is already using them? When? Which tools? What motivates/d your company to move?

D. Approximately what percentage of tools currently used, run on UNIX platform? on NT platform?

E. How do you see this mix changing over the next year?

- a) Big decrease in UNIX share    b) Slight decrease in UNIX share
- c) About the same    d) Slight increase in UNIX share
- e) Big increase in UNIX share

F. How do you see this mix changing over the next three years?

- a) Big decrease in UNIX share    b) Slight decrease in UNIX share
- c) About the same    d) Slight increase in UNIX share
- e) Big increase in UNIX share

4. Which kind of simulator do your currently use? Which one would you consider if you are looking for one?

--Analog  
--Mixed-signal

5. A. What would you expect the price of Windows based tools to be when compared to UNIX based tools of comparable functionality?

- a) Much less expensive    b) Somewhat less expensive    c) About the same
- d) Somewhat more expensive    e) Much more expensive

B. Would you expect any changes in performance for tools that use the windows O.S. when compared to compared to UNIX based tools of comparable functionality?

- a) Significant reduction in performance
- b) Slight reduction in performance
- c) Perform about the same
- d) Slight improvement in performance
- e) Significant improvement in performance

C. Would you expect any changes in technical service and support for tools that use the Windows O.S. when compared to UNIX based

tools of comparable functionality?

- a) Significant reduction in service    b) Slight reduction in service
- c) Comparable service    d) Slight increase in service
- e) Significant increase in service

6. A. How would you like your PC-based analog and mixed signal 0  
simulator or tool to interact with the UNIX version of the same tool?

B. How would you like to manage the data in a mixed environment?

C. What impact will NT based tools have on your corporate standards0  
for layout, documentation, etc.

D. What licensing scheme would you like to utilize for your PC-based 0  
tools?

\* Question #7 is for those who use a PC O.S.. Otherwise, please skip to0  
Question #8

7. A. What type of design work occurs on the PC:

- a) IC design    b) FPGA/ASIC    c). Printed circuit board design
- d) Other (specify)

B. Please indicate the type of design work performed:

IC    FPGA/ASIC    PC board    Other

Digital only

Analog only

Digital and analog

0

C. Is your company already using or planning to use Windows NT EDA 0  
tools? When? Which tools? What motivates/d your company to move?

8. Please rank the source that you usually learn about new EDA tools?0

- a) Magazines    b) Shows/conferences    c) Vendors
- d) Friends/colleagues    e) Other (specify)

9. Please provide some e-mail addresses of design engineersu, if allowed,0  
to help us expand the scope of this academic research.0

10. If you have any suggestions to improve or augment this questionnaire,  
please indicate in the following space.

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996

From: aa4rm%amos.UUCP@mathcs.emory.edu (Marty)

Subject: Re: Give me a hand

Message-ID: <9603131355.AA02506@amos.YP.mystnite>

Dear Chiming Lu:

Your inquiry is very interesting to me and a few others involved in the EDA industry... and my interest is very peripheral. Scads of us here are fogies reliving our childhoods with tube-based contraptions that we now finally understand after long careers. And few of know the difference between a U-nix and a spotted owl.

So I don't think you'll get many respondents. And I hope you don't get many 'flames' either.

I believe yours is the first survey form we've seen circulated here. However I'm carbon-copying the list on this because of what seems a hidden agenda and may spark lively discussion in the curmudgeon community. And I love controversy.

I must tell you I am suspicious of your questionnaire, even though you wear the grad. student credentials. I know Mentor Graphics is out your way and wonder if this data will guide their marketing efforts. Are you in their employee either directly or indirectly by way of a department grant?

Same question goes for Microsoft. They're a regional-native and could benefit from survey answers like those too. W. Gates would like nothing better than seeing his blister-packed quarter-wit OS-imposters crush the UNIX gnat-annoyance.... the same gnat-annoyance that, to Gates, is alarmingly the warp and the woof of the internet ifrastructure.

Enough hypenation in the last sentance?

Thanks,

Marty

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996

From: Jim Dillon <beadgal@ptialaska.net>

Subject: Re: Give me.....

Message-ID: <01BB10AA.F3AE6D00@juneau\_102.dialups.ptialaska.net>

.....a break! Is Jack dead? How did this penetrate the Firebottle Firewall? Any Unix geeks on board who can hack the entire contents of the Sandia Labs onto the uro side of the machine where Unix discussions belong? I entreat our gracious hosts to unburden their humble System 7 (and subscribers who retreat from Unix and NT hassles to the comfort of their



warm BA hardware)from flagrantly off-topic traffic. \*There are 9000 newsgroups devoted to operating systems\*-Spam them with surveys. MHO  
Jim Dillon WL7CMQ

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Headphones  
Message-ID: <9603131808.AA104211@csemail.cropsci.ncsu.edu>

>  
> Bob: About two years ago, you posted a genius "connaisseurs guide to high-Z  
> headphones"- remember that? Do you have a copy of that diatribe? think it was  
> in the "older archives section" of the list, so it is not easily accessed  
> through the server.

Tin cans are a bit like yer underwear.....(:+}}, very much one's own type of preference. For me I like them big, heavy, and ugly.

I remember that post, but, unfortunately, don't have a spare copy around. Perhaps the listowner does in the archives. The contents list is on ftp.theporch.com somewhere, sorted and by date. Maybe you can find it that way.

If anyone has a copy of that ``diatribe'' ad nauseum or a copy of the dynamotor discourse that I did, I would appreciate a copy. Fool me did not save much from earlier times....., and machine crashes are bad for on-line materials.

> Been looking for a good pair of cans and I'd really like to reread what you  
> had to say.

Simpleton Simeon's CW tin can tips.....

Get as large a size can as you can find with the largest diameter diaphragm that you can find. That will usually be a quick indicator of a good set of tin cans.

Balwin Micas, are superb,  
Brandes Admirals, Brandes Superiors, are quite fine,  
Trimm Dependable are pretty good,  
the tin cans from the British Type 19 Set, MK II, are quite good,  
Western Electrics are usually good if you can find them,

The small headsets used in WWII and later are not very good.  
They resonate too high in frequency and are thus not good on CW.  
The large navy headsets from WWII are pretty good. The navy was

always into CW.

Carefully tighten/loosen the diaphragm caps until they resonate at the exact same frequency of your choice. They make good mechanical audio filters when loosened up to the point where the diaphragms are self resonant or are beginning to ring (or a harmonic of that frequency).

> Thanks a bunch.  
> 73 Joe N4WQC  
> 72411.533@compuserve.com

Yer velcome!

Good Luck  
73/ZUT DE NA4G/Bob

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: Duc\_Nguyen@vapower.com  
Subject: Heathkit SB610  
Message-ID: <14713de0@vapower.com>

Hi!

Anybody knows what it does ? And what other aux. devices do I need in order to operate it ? Thanks in advance for any help.

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Re: Heathkit SB610  
Message-ID: <31471FCB.5A07@sci.mus.mn.us>

Duc\_Nguyen@vapower.com wrote:

>

>

> Anybody knows what it does ?

It's an RF monitor. Just connect it between the transmitter and the antenna. Simple as that.

--

Chuck Penson  
Education Division  
Science Museum of Minnesota

penon@sci.mus.mn.us

612.221.4510 voice  
612.224.5092 fax  
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: Jim Dillon <beadgal@ptialaska.net>  
Subject: RE: Heathkit SB610  
Message-ID: <01BB10C9.57818EC0@juneau\_54.dialups.ptialaska.net>

-----  
From: Duc\_Nguyen@vapower.com[SMTP:Duc\_Nguyen@vapower.com]  
Sent: Wednesday, March 13, 1996 3:30 AM  
Subject: Heathkit SB610

Hi!

Anybody knows what it does ? And what other aux. devices do I need in0  
order to operate it ? Thanks in advance for any help.

Hello Green Machinists-

The SB-610 is basically an oscilloscope wrapped up in a nice  
package to use as a more-or-less dedicated SSB transmitter  
monitor. You can use the big SO connectors on back to loop  
through output of transmitter to antenna. Or loop output of exciter through the  
RCA 'exciter' jacks into linear. Audio jack can input audio fro modulator  
on AM rig to display trapezoid.

Then mess with front panel until you see your signal.

It has a two-tone generator built in for setting up your rig (great feature)  
and a 1500 cycle single sine. Can monitor RTTY also.

And you can use it as a handy o-scope also.

Really helps in setting phase modulator on HT-37, Marauder, HW-101,  
whatever.

Does anyone have the manual for SB-610. I need a copy. Thanks

Jim Dillon WL7CMQ beadgal@ptialaska.net

keep trying, our mailserver is wrenching lately

0

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Chuck Penson <penon@sci.mus.mn.us>  
Subject: Re: Heathkit SB610  
Message-ID: <314730F0.4093@sci.mus.mn.us>

Nick England wrote:

>  
> Not quite so simple - it is also a receive monitor, but I haven't ever  
> tried that part - usually wired up for some IF freq other than mine :-)  
> And also a two-tone test generator for SSB linearity testing.

Ohhh, picky picky picky :) You are right, of course, but no one ever really used the receive monitor function because it doesn't tell you anything reliable. It can, however, be used reliably as a RTTY tuning scope. And I think to wire it to work that way (as a simple o'scope) requires only that parts be removed--if it isn't wire like that already.

And has anyone here ever really used a two-tone test gen? Don't we all just whistle or yell "hellllllllllo, hellllllllllo" naer some crowded 20 meter freq?

--  
Chuck Penson  
Education Division  
Science Museum of Minnesota

penon@sci.mus.mn.us  
612.221.4510 voice  
612.224.5092 fax  
<http://comped.sci.mus.mn.us>

Standard Disclaimer: The opinions expressed are etc. etc. ...

"Nothing is too wonderful to be true" -- Michael Faraday

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Sandy Blaize <70401.134@compuserve.com>  
Subject: Re: Heathkit SB610 usage  
Message-ID: <960313225506\_70401.134\_IHD48-4@CompuServe.COM>

Chuck,

There was a treatise in one of the ham rags years ago, by I think, Bill Orr. Anyway, it told of the virtues of using a two-tone oscillator to tune

up  
an SSB transmitter instead of just carrier. After years of dealing with scads  
of  
commercial SSB gear and amateur equipment, I'm convinced the ONLY way  
to PROPERLY tune up a linear SSB RF power amplifier is with a two-tone  
generator and an oscilloscope! You can very rapidly determine whether you are  
"flat-topping" (non-linear operation!) and adjust the tuning and loading for  
absolutely optimum operation. Otherwise, "meter" indications" on the linear or  
on an attached wattmeter can be very misleading. Once the linear/SB-610  
or linear/HO-10 (or their Jap equivalent) user is savvy about HOW to use the  
oscilloscope/two-tone oscillator properly, he will wonder how he tuned up  
without it and his linear will deliver a MUCH cleaner signal to boot.

73,

Sandy W5TVW

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "CHRISTOPHER CONDON" <condon@WVUBE1.BE.WVU.EDU>  
Subject: hello  
Message-ID: <6F3E65304C@WVUBE1.BE.WVU.EDU>

Can I get some information this list? thanx

Chris

Christopher M. Condon	Data Systems Specialist
condon@wvube1.be.wvu.edu	West Virginia University
Voice: 304-293-6524	Bureau of Business Research
Fax: 304-293-7061	College of Business and Economics

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: "basalop" <basalop@eskimo.com>  
Subject: HRO Info?  
Message-ID: <199603132308.PAA02497@mail.eskimo.com>

Hello Tube Dudes,

I am trying to put together a little info on HRO receivers. For  
myself I have collected the following information.

1935: First HRO. Had black "leatherette" panel. Odd knobs, used  
six pin tubes and no meter.

1935: (late) HRO blacke wrinkle finish. HRO Junior had no Xtal  
filter and no bandspread coils.

1941: HRO C model. Black wrinkle, coil holder and speaker available also.

1942: HRO Models M, MX, M-RR (there are other models I do not know about), SR and JR models. The military model HRO was the RAS and was painted Navy Grey.

1944: HRO-5 had octal tubes. HRO 5-1 had a noise limiter. HRO 5T was the table model. HRO 5-R was the rack mount model.

1948: HRO-7 smooth grey cabinet. HRO7-C black wrinkle rack mount model. Believe 7 and 7-C had slide rule calibration on coils.

Band spread coils were A,B,C,D. Regular coils were JA, JB, JC, JD. No band switches on these models. All coils will work in most models, but radio must be aligned.

This information was passed to me by K7DR. Is there a file area I can go look and get a complete listing? This info is the best I have and it may not be completely correct.

What did HRO stand for?

73 Jim K7SLI

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: "basalop" <basalop@eskimo.com>  
Subject: Re: HRO Info?  
Message-ID: <199603140051.QAA21220@mail.eskimo.com>

Hi Mike,

>

> You've already digested the Moore's book info, right? It's all pretty

Thanks for your info and I do not know of "Moore's book" I am very interested. Tell me more about the book.

>

> Was it Hank who told me that HRO was originally HOR, for "Hell Of a Radio",  
> but it pronounced like an even older profession than radio operators,  
> so was permuted to HRO.

>

Hmmm. Now that makes sense ...

73 Jim

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Michael.J.Knudsen@att.com  
Subject: Re: HRO Info?  
Message-ID: <9603132338.AA02653@bock.ih.att.com>

The RAS family was based on the "HRO Jr" (no S-meter, no xtal filter); the one I had was black wrinkle finish. The insides were gloss grey but so were the NC-100 series inside.

You've already digested the Moore's book info, right? It's all pretty confusing. I think someone recently said there were 5 versions of the RAS.

Was it Hank who told me that HRO was originally HOR, for "Hell Of a Radio", but it pronounced like an even older profession than radio operators, so was permuted to HRO.

I've yet to hear any idea what PW (dial) stood for -- hope you find that.  
73 es gud luck, mike k aa9rg

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Paul Christensen <PaulC@jax.se.continental.com>  
Subject: Re: HRO Info?  
Message-ID: <3147AE28@se.continental.com>

>Was it Hank who told me that HRO was originally HOR, for "Hell Of a Radio",  
>but it pronounced like an even older profession than radio operators,  
>so was permuted to HRO.

In a previous A.W.A. Old Timer's Bulletin, I recall reading an article where James Millen named it "HRO" after "Hell of a Rush." The "rush" being the military's responsive need for a lot of communications receivers in a short period of time.

-Paul, N9AZ

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: don merz <71333.144@compuserve.com>  
Subject: HRO Specifics

Message-ID: <960314032618\_71333.144\_DHB68-1@CompuServe.COM>

HR0 stands for "Hell of a Rush Order" since it was produced under a tight deadline.

The definitive HR0 history up through the HR0 5 appears in AWA Review Volume 4 (1989) which is sadly now out of print.

73, Don

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: ks0f@i1.net (MIKE SANDERS)  
Subject: HR0 stuff  
Message-ID: <199603140139.TAA13443@mail1.i1.net>

Greetings All,

Just got off the phone with Jim K7BTB out in Parks, AZ. He has some HR05 and HR07 stuff. 6 coils total. 2 for the 5 and 2 gray and 2 black for the 7. He has a rare AB for the HR07. Jim has some other parts for the earlier HR0s. He is at 520-635-2117.

73 Mike

ks0f@basic.net

Still looking for HR050/60 stuff. Coils A and C for the 50 and dial scale AD. Also want other stuff and am looking for another HR050 or 60 with stuff. Knobs for the 183D needed (or HR050).

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: "Ray L. Mote" <rmote@rain.org>  
Subject: KD6KWH wants BC-474, GN-44, FL-10  
Message-ID: <Pine.SUN.3.91.960313143801.771A-100000@coyote.rain.org>

Henry Engstrom is looking for a BC-474, anything from a "basket case" to a complete, beautiful unit. He also needs the GN-44 generator and FL-10 filter that is used with it.

Henry Engstrom, KD6KWH  
P.O. Box 5846  
Santa Rosa, CA 95402  
(707) 523-9268 (voicemail)

If you wish, let me know via email and I'll call Henry direct. He ought to have quite a bit of "trade goods" from which to select.



73.....Ray Mote, W6RIC <rmote@rain.org>

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: "Greg Anders" <anders@autopsy.corp.sgi.com>  
Subject: Looking for Vernier drive mechanism  
Message-ID: <9603131517.ZM20906@autopsy.corp.sgi.com>

I'm looking for vernier or planetary reduction drives for an antenna tuner I am building so my CE100V can handle my end-fed 80M antenna. Does anyone know of a source for these?

THanks,

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: bill@texan.frco.com (William Hawkins)  
Subject: Mech Filter for R-388/75A-1  
Message-ID: <9603140031.AA21601@texan.frco.com>

The March ER is loaded with interesting articles. One of them is about adding a mechanical filter to the R-388 (not A) or 75A-1. Chuck Teeters, W4MEW, says he bought an IF strip from Fair that has a Collins filter centered on 501.5 kHz and 3.5 kHz wide, for \$35. He doesn't give any more details. I can't find it in the '95 flyer, tho there is an IF strip with 500 kHz USB and LSB filters for \$65.

Is this worth digging into, or is it just going to ruin an otherwise fine R-388? Can anyone identify the Fair catalog page number? And finally, how can it be that the filter just drops into the '388 tho it wasn't designed for it?

Mail server was down from 6PM to 7AM last night, so I didn't see any replies on grounding, or the survey. Maybe the Internet is approaching meltdown after all, as more and more exploit a cheap resource.

Bill Hawkins

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Sandy Blaize <70401.134@compuserve.com>  
Subject: Mech Filter for R-388/75A-1  
Message-ID: <960314040700\_70401.134\_IHD35-2@CompuServe.COM>

Bill,

Hopefully it is done the same way Collins did it with the 51J-3 when it permutated to a 51J-4! The 51J-4 is NOTHING but a 51J-3 with a module added and a few other items eliminated. It looks and is effectively, an "add on".

BTW, I may even be able to get the add-on unit for those who might want to make the 'conversion' (less the filters, of course!) I also have a junker J-4 if anyone needs some parts!

73,

Sandy W5TVW

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "Joseph J. Curry" <71407.1774@compuserve.com>  
Subject: Millen 500w amp  
Message-ID: <960313171704\_71407.1774\_FHV90-2@CompuServe.COM>

Fellow Boatanchorites:

Boatanchors did such a great job finding me a modulation transformer that I am sure they can help with this one.

I am looking for a Millen 90881 amplifier (w/ or w/o tubes). This was a 500w amplifier chassis meant to use 812s, TZ40s, or 35Ts. It need not have all the coil sets, but I need to have the plate and grid coils for 80 and 40 meters for sure. If 160 meter coils available, that would be a bonus. This unit is mounted on a 10.5" rack panel and does not come with a power supply.

If you have one of these and would like to sell it, please contact me at:

71407.1774@compuserve.com

Tnx es 73,

Joe

KE6LFT (ex-K3IC0)

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Missing Equipment  
Message-ID: <9603131636.AA103873@csemail.cropsci.ncsu.edu>

>

> BTW, I forgot a key phrase - added in caps:

>

> My XYL related a conversation she had with the widow of an SK, who, upon his  
> death, promptly put the entire contents of his shack in the garbage. At least  
> she had the decency to wait. I have thought about this & instructed my wife to  
> give my stuff to specific friends who will appreciate & take care of it - BUT  
> NOT UNTIL I'M LEGALLY DEAD!

>

> 73,

> Ross

You know, I have been thinking about this sort of thing for some time.  
Rather than have the XYL hassle with things, if you know you are going,  
start giving the stuff away to those who will treasure it BEFORE you go  
deep-sixed. That way, by the time you are gone, the XYL does not even  
have to bother with it. Unless one keels over with an instant heart  
attack, one often has a month or so of failing health to get this sort  
of thing done. Since most XYL's don't know one end of a light bulb resistor  
from a sperical audion, maybe it would be better just to let it go.....

Food for thought.....

73/ZUT DE NA4G/Bob

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996

From: lstolz@tekelec.com (Lynn Stolz)

Subject: More 4E27A/5-125B chatter

Message-ID: <9603131428.AA03720@london.oh.tekelec.com>

An oldtimer told me once that the 4E27A's are much more efficient than 813's  
for 10 meter use. I think he had made an amplifier using them at one time.

Also, If anybody wants to experiment with them, I have two (2) that I'd  
like to get rid of. \$15 PPD CONUS.

Lynn -- N8AJ

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996

From: rdkeys@csemail.cropsci.ncsu.edu

Subject: Need manual copy for RBA for Battleship NC

Message-ID: <9603131709.AA104000@csemail.cropsci.ncsu.edu>

I was visiting the Battleship North Carolina, yesterday in preparation  
for a BA display and special event station there Field Day 1996.

They have an RBA receiver that is used to pipe morse code around the ship for background music, etc., that is on the fritz. I offered to look at it for them and try to fix it when we return there in a few weeks. Alas, I can't find a schematic or manual for it in the local archives at NCSU or local Boatanchorite collections. Does anyone have a manual or at least schematics that I could get a copy of to help us fix that receiver on the Battleship North Carolina? Any pointers appreciated.

Thanks

Bob Keys/NA4G  
rdkeys@csemail.cropsci.ncsu.edu

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: Cormac Thompson <cormac@televar.com>  
Subject: NEED: HEATH IT-11 MANUAL  
Message-ID: <31470CD0.50B9@televar.com>

Gang:

I sure could use a copy of the operating instructions for the Heathkit IT-11 capacitor checker. I'll gladly pay expenses, please advise if you can help me. Thanks and 73. Cormac, W7JHS  
cormac@televar.com

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Jim Dillon <beadgal@ptialaska.net>  
Subject: Parts Sources  
Message-ID: <01BB10DC.F71C57E0@juneau\_50.dialups.ptialaska.net>

Fellow Scroungers-

Can anyone let me know whether my post last week or so re: Digikey made it through our eech-mail handler? It macerated the return mail = even.

New source: M.P.Jones & Assoc.

P.O. Box 12685

Lake Park FL 33403 1-800-652-6733

Catalog 96-3 BA stuff-

p.65 Knobs. Very convincing knockoffs of Hammarlund, RCA = broadcast/AR/ACR, Collins \*spinner\*(7504-KN), R390 diallock(7502-KN), = also Waldom, alco originals.

p.23-27 Fans out the Kazoo, cool those 811as in the KWM/30L1!

p.20-21 Toroids dakine cheap also 30A EMI filter, clamshells,hashp. 19 =  
Isolation xfrms, filament, 600ohm line,  
p. 98-100 RF connectors, cross-series adapters (N to IEEE-1284?)  
p.86-87 excellent small cap+trim listingp.85 metallic film and power =  
resist  
p.77 couple good BA 'S' meter  
p.68 EMI braid- Harris Engineers take note  
p.46 running time meter cheap  
p.35 Reed Swiches (rotator, Heathstuff)  
Oops...Electric Radio just arrived..gotta QSY...  
Jim Dillon  
seeking Tuning Eye Gear (Nationals, Skyriders, Gonset Goonies...

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: w7ni@teleport.com (Stan Griffiths)  
Subject: Re: Proper Tube Handling Question  
Message-ID: <199603132132.NAA08413@desiree.teleport.com>

>OK Stan, I'll remember the part about cathode stripping (full B+  
>on a cold tube warming up). I should've remembered that.  
>  
>However, about that tube in the Tek 519 -- what if it burns out  
>while the scope is running? Do you then get the same effect as if you'd  
>yanked it? I'd like to think a class act like Tek would not design circuits  
>that self-destruct if a tube goes out.

Now that you mention it, I am sure the scope would self-destruct if that  
tube failed under the right circumstances. The 519 is a special animal. It  
was the world's first 1 GHz real-time (not sampling) scope and was  
introduced in 1960. It had an incredibly fast sweep speed of 2 nanoseconds  
per division, and in order to produce a linear ramp that fast, a lot of  
charge had to be sucked out of a timing capacitor FAST. To do this, Tek  
used a 4CX250F tube and turned it on hard. (The 4CX250F, for those who  
don't know, is a 4CX250B with a 26.5 volt filament.) Anyway, the circuit  
was designed to run at about a 2 percent duty cycle, ie: sweep once (12  
nanoseconds, since it only had a 6 cm sweep length) and then wait a few  
microseconds before sweeping again. It is the tube that prevents the  
4CX250F from sweeping too soon that had better be there when you need it.  
At slower sweep speeds, you could get away with removing that tube without  
the 519 self-destructing. I never regarded this as bad design. It was  
state-of-the-art at the time.

There must be a hundred different ways that a failure in a scope could  
result in a phosphor burn. Come to think of it, virtually every machine I  
can think of has some potential failure mode that can cause a distaster.  
How about blowing a front tire on your car at 65 MPH on the freeway? I'd  
much rather burn up my 519 . . .

>BTW, a lot of us have such time bombs -- any audio or RF power amp with  
>a separate bias rectifier tube. If that rectifier goes dead, you'll  
>warm up the shack real cozy for a little while.

>

>Then there's the clamp tube in the Viking II, which had better be there  
>when you need it.... 73,, mike k aa9rg

Yep, a couple more good examples, Mike. I am sure there are hundreds more.

Stan w7ni@teleport.com

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996

From: Michael.J.Knudsen@att.com

Subject: Re: Proper Tube Handling Question

Message-ID: <9603131657.AA01516@bock.ih.att.com>

OK Stan, I'll remember the part about cathode stripping (full B+  
on a cold tube warming up). I should've remembered that.

However, about that tube in the Tek 519 -- what if it burns out  
while the scope is running? Do you then get the same effect as if you'd  
yanked it? I'd like to think a class act like Tek would not design circuits  
that self-destruct if a tube goes out.

BTW, a lot of us have such time bombs -- any audio or RF power amp with  
a separate bias rectifier tube. If that rectifier goes dead, you'll  
warm up the shack real cozy for a little while.

Then there's the clamp tube in the Viking II, which had better be there  
when you need it.... 73,, mike k aa9rg

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996

From: USSAILIS@forum.phast.umass.edu

Subject: R-C Networks

Message-ID: <01I2B2PI611U00ESEK@rfd.oit.umass.edu>

Have come across a bunch of those multilead R-C networks that were used  
in the late '50s and early '60s. These are numbered 021-1126-001. They have  
nine leads. Whats in them? Can anyone use some?

Jim, W1EQO

ussailis@forum.phast.umass.edu

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: pbock@melpar.esys.com (Paul H. Bock)  
Subject: Round-shaft Vibroplex Model X  
Message-ID: <9603131434.AA24624@syseng1.se.melpar.esys.com>

A complete description of Model X #68638 (253 Broadway) highlighting differences between it and earlier square-shaft Xs is available. Please e-mail me if you'd like a copy.

73,

Paul, K4MSG      pbock@melpar.esys.com

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Nick England <nick@cs.unc.edu>  
Subject: SB-610 info  
Message-ID: <199603132009.PAA20006@altair.cs.unc.edu>

In addition to being an in-line transmitter signal monitor, the SB-610 also contains an audio two-tone generator for SSB linearity testing.

Furthermore, it includes a receive signal monitor which hooks up to your rcvr IF and lets you see if the other guy is overmodulating - but this is wired for a particular IF freq at assembly time and Murphy's law rules - the 610 you have isn't for *\*your\** IF freq, and the original builder always discards the unused coils.

73 & have fun,  
Nick KD4CPL  
nick@cs.unc.edu

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: wb6zwc@ns.net  
Subject: SB610  
Message-ID: <2.2.16.19960313200649.36df4d60@mail-1.ns.net>

I loved that little green monster. It did some good things, like the two tone test,  
trapezoid, tty and ofcourse the IF receive.

I like it most because when the neighbors came into the shack it was always the center of attention. It made me look like i knew what was going on....

\*\*\*\*\*

Richard       wb6zwc@ns.net  
Still looking for Bleeder  
Resistors 7.5 K @ 160 Watts

-----  
& 575A's Hv rectifiers (toobs)  
\*\*\*\*\*

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>  
Subject: Signal Transformer ID  
Message-ID: <199603140605.AAA18013@legend.txdirect.net>

Need help identifying a Signal Transformer # 02-6190

This is a large choke, perhaps for a Heathkit. Any clues out there?

Thanks and 73.....gary

=====  
<<<<<<<< T00 many projects, NOT enough time! >>>>>>>>>

Gary H. Harmon, Jr., K5JWK gharmon@txdirect.net  
6302 Robin Forest       K5JWK@K3WGF.STX.USA.NOAM  
San Antonio, TX 78239       (210) 657-1549

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: "Integration Area" <integrat@usr.com>  
Subject: Re: SX-28 newbie  
Message-ID: <9602138267.AA826740536@robogate.usr.com>

The SX-28 you have was built for the Navy, apparently under a rush contract. Other wartime Navy Hallicrafters sets (RBXs) were at least given real datatags. The NXss- numbers are the contracts, probably from mid to late 1943. Apparently the Navy SX-28s were called RCFs.

SX-28s were used for countermeasures during World War 2, and used a variety of panoramic adapters. Your RCF was used with a panadaptor known as an RBY-1. An RBY-1 probably sat on top of your RCF.

Would you be willing to give me some more information for my Navy contract database (see yesterday's post about it)? I am always looking for serial numbers, contract numbers and dates, contractors, etc. for Navy stuff.



William Donzelli  
integrat@usr.com

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: w7ni@teleport.com (Stan Griffiths)  
Subject: Re: Tek 190-A Sig Gen  
Message-ID: <199603132201.0AA24388@desiree.teleport.com>

>Hello Stan,  
> I've read with great pleasure your posts regarding Tek scopes, and  
>indeed I expect to inquire about my own 545 when I get it out of  
>storage.  
> But my immediate question is about a TEK 190-A sig gen which is  
>for sale for \$45 asking in Mass. I know nothing of it, though except  
>its supposed to work, and goes to about 50 mhz.  
>  
>Do you know this piece? What can you tell me about it generally?

Hi Dennis,

Yes, I am familiar with the Tek 190A. It was designed specifically to test oscilloscopes for making their vertical bandwidth specification. It is a "constant amplitude sinewave generator". It is generally used in the following way:

1. Set the 190A to its special fixed output frequency of 50 KHz and apply the 190A output to a scope input.
2. Adjust the amplitude of the 190A for a 4 division high signal on the scope screen.
3. Increase the frequency of the output of the 190A by switching its bandswitch until you get in the band that contains the expected 3dB down point of the scope vertical amplifier you are testing.
4. Adjust the variable frequency output of the 190A until the 4 division signal on the scope has reduced in amplitude to 2.8 divisions. This is the 3 dB down point of the scope. (Maximum frequency of the 190A is 50 MHz so you can't test 100 MHz scopes with a 190A.)
5. Read the frequency dial of the 190A (not real accurate, like within a few hundred KHz) to determine the 3 dB down point of the scope.

Prior to the 190A, there was the 190 and after it there was the 190B which have essentially the same frequency coverage and specifications. It was replaced by the 191 which was much smaller and went to 100 MHz.

Being that it is a sinewave generator, it can be useful for all kinds of general testing, but it only cover from 350 KHz to 50 MHz continuously with an additional fixed frequency output at 50 KHz. It is great for testing scopes but I can't really say how good it would be for other BA servicing.

>Its intended use would be for general BA servicing. I have a R-390-A  
>and a Tempo 1 which will need attention, I'm sure as I get back on  
>the air after 6 years QRT!

> Any help would be great!

> Thanks,

> Dennis

> KG6ZI

Glad to help, Dennis.

Stan w7ni@teleport.com

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996

From: John Kolb <jlkolb@cts.com>

Subject: Re: Tek 190-A Sig Gen

Message-ID: <Pine.SC0.3.91.960313161850.23993A-100000@sd.cts.com>

On Wed, 13 Mar 1996, Stan Griffiths wrote:

> Yes, I am familiar with the Tek 190A. It was designed specifically to test  
>

> Being that it is a sinewave generator, it can be useful for all kinds of  
> general testing, but it only cover from 350 KHz to 50 MHz continuously with  
> an additional fixed frequency output at 50 KHz. It is great for testing  
> scopes but I can't really say how good it would be for other BA servicing.  
>

I used to use a 191 generator, along with a HP141 spectrum analyzer to test high/low pass filters, since I didn't have the tracking generator. Set the analyzer up with long persistence, sweep the oscillator across the filter bandwidth of interest, and see the result painted on the screen. The virtue of the 191 was that you could trust that the amplitude into the filter was constant.

John Kolb KK6IL

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996

From: rdkeys@csemail.cropsci.ncsu.edu

Subject: Temporary BA Archives

Message-ID: <9603131745.AA104065@csemail.cropsci.ncsu.edu>

I have put a number of my on-line archive materials into a temporary archive that will be up for a few days, before I clean house on my unix box, then they will be gone. IFF anyone is interested in any of these materials to archive elsewhere, get them as soon as possible and transfer them elsewhere.

machine: csemail.cropsci.ncsu.edu (152.1.88.3)  
login: zworker  
password: boatanchor

The files are in sundry subdirectories there.

- 1) Review of the National Electrical Code for hams.
- 2) Battery charging article.
- 3) Generic amateur radio logbook and log sheets.
- 4) Various text formatters used in the preparation of simple on-line BA/Glowbug materials.
- 5) Complete Navy manual to the LM-6 Heterodyne RF Meter.
- 6) Article on a 1932 style simple hartley oscillator transmitter.
- 7) Article on a simple 6L6 vfo for 80/40 meters.
- 8) RAL (also works for RAK) schematics and dial plate logging cards.
- 9) Alfred Vail's 1847 book on the telegraph of Morse.

and I will put up there whatever else I find loose on the machine before taking it down for R/R.

Bob/NA4G  
rdkeys@csemail.cropsci.ncsu.edu

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: Brian.S.Allen%NCAOCISD@smtpgw.aoc.state.nc.us  
Subject: TUBES FOR SALE  
Message-ID: <m0tx2mZ-0001ExC@aoc.state.nc.us>

IF ANYONE IS INTERESTED I HAVE A BUNCH OF MILITARY JAN AND SYLVANIA TUBES.  
HERE IS JUST A SAMPLE OF WHAT I HAVE.

6SN7GT, 3B24W, 5U4GB SYLVANIA, 0B3, 2A3 SYLVANIA, 6D6 KENRAD 6K8G,  
CG6Y6G, 6V6GT TUNG SOL, B1148

SAMPLE OF WHAT IS STILL IN THE BOX, UNOPENED, DATED 52 AND 44  
0B3, 1B3GT, CNU1299 JAN, CHS 1R41294, CHS3B7129, 2C26A, 6DQ6B, 6AX4GT  
CHS 1LHR CRC808 WESTINGHOUSE 616, RADIOTRONE 211, CRC832, SC1350 A GE  
ELECTRIC.

THEY ARE FROM A WW11 VETERANS ESTATE. IF INTERESTED EMAIL

BRIAN S ALLEN KB4MNG  
WILLIAMSTON, NC

From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: owens@stout.atd.ucar.edu (Chip Owens)  
Subject: WANTED: Collins TCS-12 Transmitter  
Message-ID: <199603131506.IAA00440@atd.atd.ucar.EDU>

Hello Gang,

Does anyone have a Collins TCS-12 to sell? Or do you know  
where to find one? Also, I'm looking for any parts and pieces  
for a TCS transmitter. Items such as front panel, cabinet, meters,  
connectors, roller inductors, connector, relays, knobs, etc.

If you can help, please let me know.

Thanks,

Chip Owens, NW00

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: trogo@primenet.com (Tony Rogozinski)  
Subject: WTB Baldwin Headset  
Message-ID: <199603140716.AAA23396@usr2.primenet.com>

Looking for a Baldwin Headset in decent condition. Any reasonable  
price paid for a working pair of headphones. Call Tony N7BG at  
1-800-966-6264. As always, looking for old telegraph keys, especially  
"Bugs" by any manufacturer.

Thanks and 73.

Tony N7BG

Tony Rogozinski N7BG  
VooDoo Contest Group  
trogo@primenet.com  
("VooDoo" - white magic from Africa)  
I Collect TELEGRAPH KEYS - Especially "Bugs"  
Call Me At 1-800-966-6264 If You Have Any To Sell Or Trade

From boatanchors@theporch.com Thu Mar 14 01:48:01 1996  
From: stever@cybercomm.net (Stephan Rashkin)  
Subject: WTB: Johnson VF122 VFO  
Message-ID: <199603140353.WAA08901@raven.cybercomm.net>

Still looking for a VF122..Anyone have one they  
are willing to part with? Please E-mail condition and  
price..

Thanks,  
Steve, WA2NHZ

\*\*\*\*\*

Looking for: 1. Johnson VF-122 VFO  
2. BC696 / T-19 Command Xmtr

Steve Rashkin, WA2NHZ  
Howell, New Jersey

E-mail: stever@raven.cybercom.com

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From boatanchors@theporch.com Wed Mar 13 15:28:14 1996  
From: Lrware@aol.com  
Subject: Re: [VSS:499] Fluke 207-5 VLF Receiver  
Message-ID: <960313084120\_167430873@emout07.mail.aol.com>

Gentlemen, I apologize that this VSS posting was forwarded to boatanchors.

While the Fluke 207-5 weighs enough, it's sand-state...  
I didn't do it...

-Larry Ware  
lrware@aol.com

>Subj: Fwd: [VSS:499] Fluke 207-5 VLF Receiver  
>Date: 96-03-12 16:12:20 EST  
>From: Radiomatt@aol.com  
>Sender: boatanchors@theporch.com  
>Reply-to: Radiomatt@aol.com  
>To: boatanchors@theporch.com (Multiple recipients of list)  
>  
>aPPARENTLY SOME PEOPLE THINK I'M THE ONLY BOATANCHOROPHILE!  
>-----  
>Forwarded message:  
>From: Lrware@aol.com  
>Sender: vss@mlist.access.digex.net  
>Reply-to: vss@mlist.access.digex.net  
>To: radiomatt@aol.com  
>Date: 96-03-12 14:49:55 EST